

FN9274 IEC inlet filter for medical applications

- | Purpose: Provide an introductions to Schaffner FN9274 Power Entry Module filters
- | Objectives:
 - I. Highlight features and benefits of the series
 - II. Discuss part number structuring
 - III. Application examples
- | Contents: 9 pages
- | Learning Time: 5 minutes

FN9274 series are IEC inlet filters with various connection and mounting options



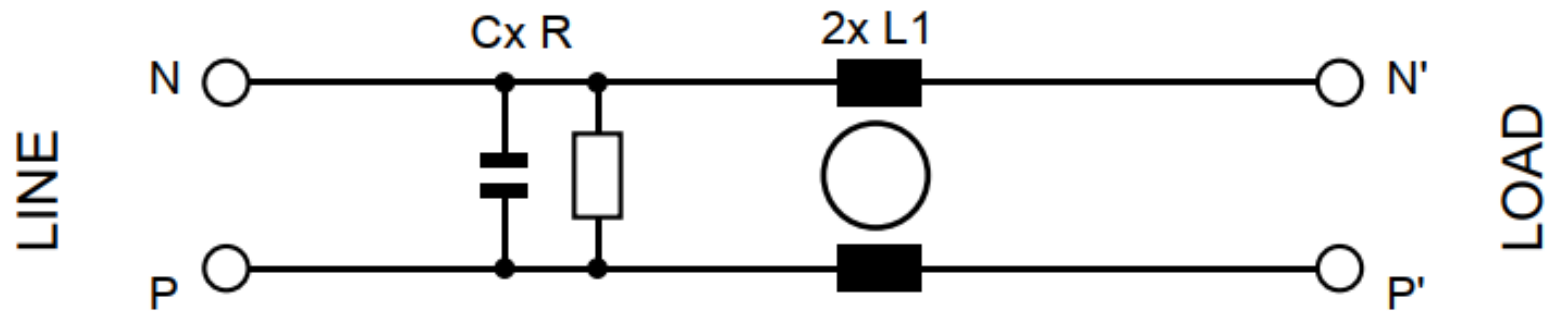
FN9274 - Features and Benefits

- Complies with IEC/EN 60601-1 Two MOPP requirement
- Rated currents 1A to 15 A
- 3 Front mounting options
- 2 Electric connection choices
- Attenuation performance: high
- Operating frequency: 50/60Hz (0-400Hz possible)
- Voltage: 250Vac max, also can be used in DC applications
- UL Recognized, CSA, ENEC, CE and ROHS compliant

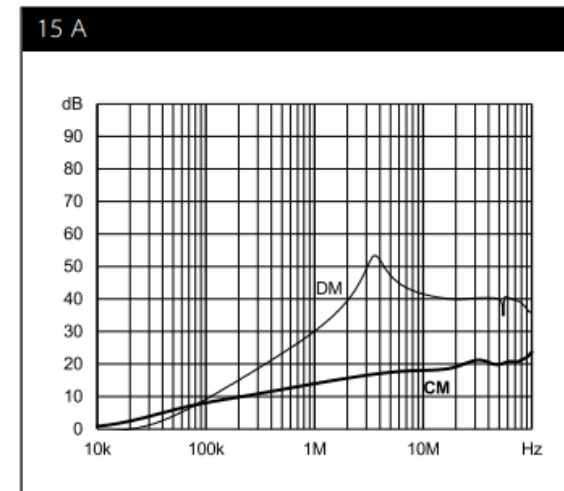
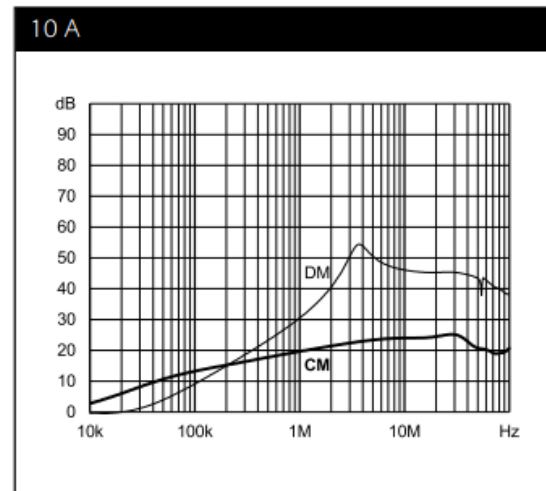
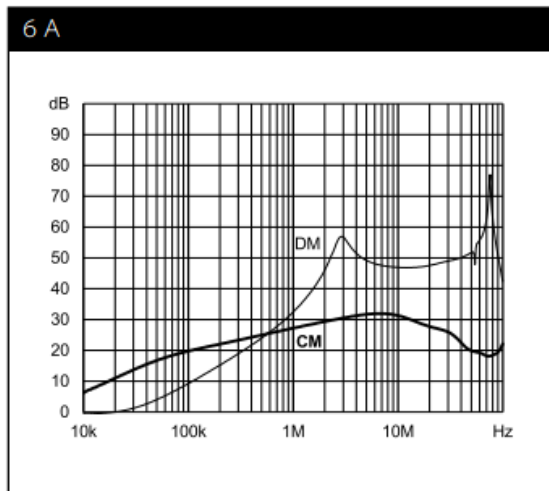
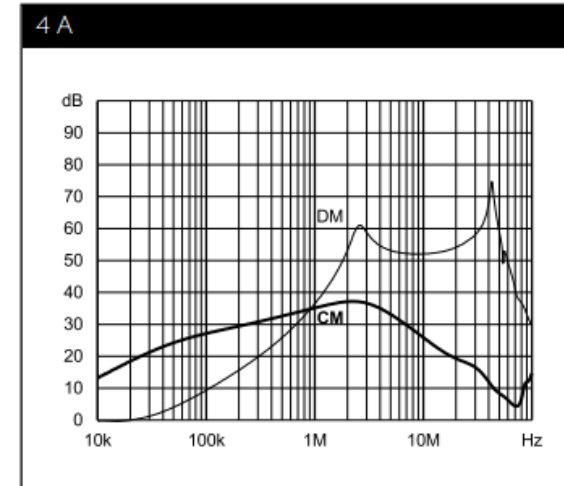
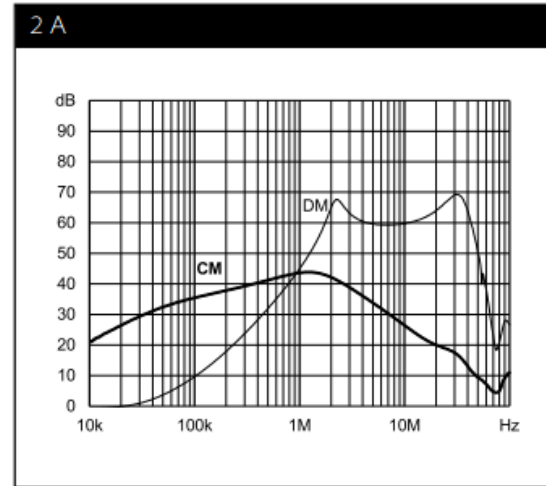
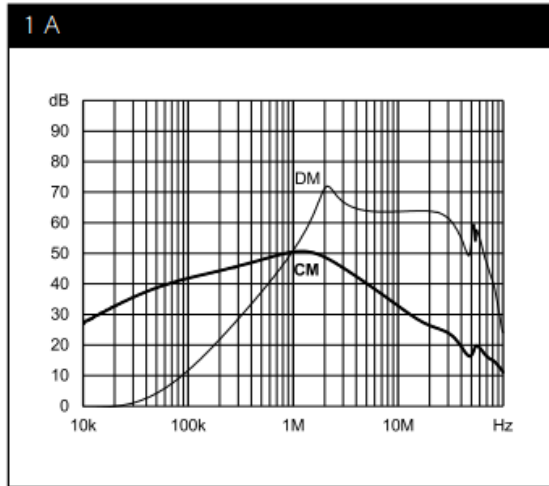
Approvals & Compliances



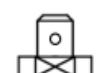

FN9274 - Electrical Circuit Diagrams



FN9274 - Typical Filter Performance (Insertion Loss)



FN9274 - Filter Selection Table

Filter	Rated current @ 40°C	Leakage current*	Inductance L1	Capacitance Cx	Resistor R	Input connections	Output connections		Weight
								 **	
	[A]	[mA]	[mH]	[μF]	[MΩ]				[g]
FN9274XXB-1-ZZ	1	0	41.1	0.2	1	C18	-05	-07	<40
FN9274XXB-2-ZZ	2	0	20.1	0.2	1	C18	-05	-07	<40
FN9274XXB-4-ZZ	4	0	7.2	0.2	1	C18	-05	-07	<40
FN9274XXB-6-ZZ	6	0	3.2	0.2	1	C18	-05	-07	<40
FN9274XXB-10-ZZ	10	0	1.3	0.2	1	C18	-05	-07	<40
FN9274XXB-15-ZZ	15	0	0.4	0.2	1	C18	-05	-07	<40

Test conditions: Temperature: 25°C±2°C; measuring frequency for inductance: 1 kHz, 50 mV

Tolerances: Inductance: +50%, -30%; capacitance: ±25%; resistance: ±15%. For mechanical tolerances, please refer to the mechanical data section

* Zero leakage current, due the medical application focus.

** Standard length is 160 mm

FN9274 - Product Selector

Product selector

FN 9274 xx B -yy-zz

				05:	Fast-on 6.3 x 0.8 mm
				07:	Wire leads
				1 to 15:	Rated current
				B:	Standard Version for Medical Applications
				Blank:	Standard housing with mounting flanges (front mount)
				M:	Standard housing with mounting flanges (rear mount)
				S1:	Snap-in version, snapper on vertical side

For example: **FN 9274 MB-15-05**

- FN 9274 IEC inlet with
- rear mount flanges (M),
- 15A rated current (15) and
- fast-on terminals (05).

FN9274 - Typical Applications

- General medical devices (MDD)
- In-vitro diagnostic medical devices (IVDD)
- LCD and OLED Displays
- Test and measurement equipment
- Portable electrical and electronic equipment
- Small to medium-sized machines
- Single-phase power supplies, switch-mode power supplies (SMPS)
- Audio / video / communication equipment (IEC/UL 62368-1)

Further information

- Visit www.schaffner.com
- Further Technical Information
- Download 3D drawing

The screenshot displays the Schaffner website's EMC/EMI PRODUCTS page. At the top, there is a navigation bar with a search field, links for 'Investor Relations', 'European Distributor Inventory', language options 'EN' and 'DE', and a 'Schaffner Corporate' dropdown. Below this is a main navigation menu with links for 'ABOUT', 'MARKETS', 'PRODUCTS', 'SERVICE', 'SUSTAINABILITY', 'MEDIA', 'CONTACT', 'CAREER', and 'DOWNLOADS'. The hero section features a background image of a red cable with the text 'SHAPING ELECTRICAL POWER' and 'EMC/EMI PRODUCTS'. Below this, it states 'SCHAFNER OFFERS THE WORLD'S BROADEST SELECTION OF EMC/EMI FILTERS AND CHOKES'. A news section below the hero shows a date '24.03.2020' and a headline 'The Schaffner Group introduces ecosine® max series...'. The product search section includes a search bar, a 'SORT BY' dropdown set to 'Relevance', and checkboxes for 'Relevance', 'Newest products', and 'Name'. It indicates '81 products were found.' and lists categories: 'IEC INLET FILTERS / POWER ENTRY MODULES' (including IEC INLET FILTERS, POWER CORDS WITH LOCKING SYSTEM, and POWER CORDS WITH INPUT EMC FILTER) and 'SINGLE-PHASE FILTERS' (including SINGLE-STAGE FILTERS). Three product images are shown in a grid, each with a plus sign icon.